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THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN

DEVELOPMENT OF AN IMPROVED DIFFUSION BOARD MATERIAL

✓ Project 2256

Report Twenty-One

A Monthly Report

to

U. S. ARMY CHEMICAL CENTER PROCUREMENT AGENCY

Report Period: June 29, 1962 to July 28, 1962

September 11, 1962

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

DEVELOPMENT OF AN IMPROVED DIFFUSION BOARD MATERIAL

Project 2256

Contract No. DA18-108-405-CML-941
DA18-108-CML-6561

Order No. CP 1-405-4519

Report Twenty-One

A Monthly Report

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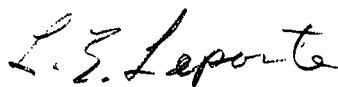
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DEVELOPMENT OF AN IMPROVED DIFFUSION BOARD MATERIAL

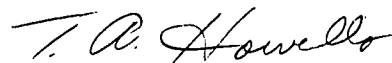
POSSIBLE FACTORS RELATING TO GAS LIFE
PERFORMANCE OF SECOND PREPRODUCTION TRIAL PRODUCT

No improvement was noted in the gas life performance of the board produced in the second preproduction trial over the first (see Reports 19 and 20) even though the pulp was more carefully washed and was maintained at an alkaline pH, the charcoal was more uniformly dispersed, and the drying was more carefully monitored. This lack of improvement seemed to point either to insufficient control of the above factors or to other factors. As a consequence, a series of boards were made in the Wood Conversion Company laboratory for gas life testing. Sized and unsized boards were made, using river water, with and without pH control, and city water. Boards were made using charcoal from the supply used in the trial runs and from the supply used in the Institute Laboratory, added in dry and slurry form to the pulp slurry. Boards were also formed in warm water in order to determine the effects of using hot water in the machine-forming operations. This work was done at the very end of this reporting period and will be covered in detail along with the testing and evaluation in the next report.

THE INSTITUTE OF PAPER CHEMISTRY



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